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CLAIMS

- An integrated process of simultaneous synthesis and crystallisation for the preparation of dipeptide crystals with the generic formula AcXYNH₂, starting from the amino acids AcXOEt and YNH₂, which is characterised by the use of proteases in organic media of reversed micelles.
- Process according to 1, characterised by the fact that it is carried out in batch reactors.
- 3. Process according to 1, characterised by the fact that it is carried out in an enzymatic, membrane and hydro-cyclone, reactor which enables the continuous or batch production of the referred crystals.
- 4. Process according to claims 1, 2 and 3 characterised by the fact that it is used for the production of other dipeptides or dipeptide derivatives with the generic formula XY, starting from amino acids X and Y.
- Process according to claims 1, 2, 3 and 4 characterised by the fact that the synthesis process is chemical and not enzymatic.
- 6. Process according to claims 3, 4 or 5, characterised by the fact that instead of a hydro-cyclone, another unit is coupled to the system which also enables the continuous sedimentation and removal of the crystals from the system.
- 7. Process according to claims 1, 2, 3, 4, 5 and 6 characterised by the fact that the resulting crystals are further purified by re-crystallisation in an adequate solvent.